

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently amended): An industrial robot comprising a first member and a second member which rotate relatively at a joint portion thereof;

the first member including:

a surface;

a first positioning member which protrudes in a direction parallel to an axis of relative rotation of the first and second members;

a first mount portion where [[a]]the first positioning member is embedded; [[and]]

a first guide portion along which the first positioning member slides in such a manner as to protrude; and

the second member, disposed on a side of the surface of the first member, including:

an abutment portion which is brought into abutment with the first positioning member when the first and second members are made to rotate relatively;

wherein the first positioning member and the first guide member portion adopt a socket and spigot construction so that the first positioning member is flush with the surface of the first member when embedded into the first mount portion ~~which is free from mechanical loosening,~~
and

wherein the first positioning member is held at a position where no portion of the first positioning member ~~does not protrude~~ from the first member when performing a normal

operation, whereas ~~only~~ when performing an origin adjustment, the first positioning member is made to protrude from the surface of the first member.

Claim 2 (withdrawn): An industrial robot comprising a first member and a second member which rotate relatively at a joint portion thereof;

the first member including:

a first mount portion where a first positioning member is embedded and

a first guide portion along which the first positioning member slides in such a manner as to protrude; and

the second member including:

a second mount portion where a second positioning member is embedded and

a second guide portion along which the second positioning member slides in such a manner as to protrude,

whereby the first and second positioning members are brought into abutment with each other when the first member and the second member are made to rotate relatively.

Claim 3 (Withdrawn): An industrial robot as set forth in Claim 2, wherein the positioning member is held at a position where the positioning member does not protrude from the first member when performing a normal operation, whereas only when performing an origin adjustment, the positioning member is made to protrude.

Claim 4 (Currently amended): An industrial robot as set forth in Claim 1 or 3, wherein

the first positioning member is brought into abutment as a mechanical origin position of the industrial robot.

Claims 5-6 (canceled)

Claim 7 (Withdrawn): An industrial robot as set forth in Claim 1, wherein the abutment portion of the second member includes:

a second mount portion where a second positioning member is embedded; and

a second guide portion along which the second positioning member slides in such a manner as to protrude,

wherein the second positioning member is brought into abutment with the first positioning member when the first and second members are made to rotate relatively.

Claim 8 (Canceled)

Claim 9 (New): An industrial robot comprising a first member and a second member which rotate relatively at a joint portion thereof;

the first member including:

a mount portion where a positioning member is embedded, and

a guide portion along which the positioning member slides in such a manner as to protrude; and

the second member including:

an abutment portion which is brought into abutment with the positioning member when the first and second members are made to rotate relatively,

wherein the positioning member is fully embedded in the mount portion of the first member when performing a normal operation, whereas when performing an origin adjustment, the positioning member is made to protrude from the first member.

Claim 10 (Currently amended): An industrial robot as set forth in Claim 9, wherein the positioning member is brought into abutment as a mechanical origin position of the industrial robot.